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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/970,701	10/05/2001	Shigenobu Maeda	214702US2	1793
22850	7590 09/22/2004		EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET			HOLZEN, STEPHEN A	
	RIA, VA 22314		ART UNIT PAPER NUMBER	
	,		3644	

DATE MAILED: 09/22/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	_
Office Action Summans	09/970,701	MAEDA, SHIGENOBU	
Office Action Summary	Examiner	Art Unit	. /
v	Stephen A. Holzen	3644	<u>u/</u>
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	ely filed will be considered timely. the mailing date of this communic (35 U.S.C. § 133).	cation.
Status			
1) Responsive to communication(s) filed on 3/10	2004		
	action is non-final.		
3) Since this application is in condition for allowar	nce except for formal matters, pro	secution as to the meri	ts is
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.	
Disposition of Claims			
 4) Claim(s) 1-12 is/are pending in the application. 4a) Of the above claim(s) 5-12 is/are withdrawn 5) Claim(s) is/are allowed. 6) Claim(s) 1-4 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or 	from consideration.		
Application Papers			
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 CFR 1.1	• •
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Application ity documents have been receive I (PCT Rule 17.2(a)).	on No d in this National Stage	e
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:		

DETAILED ACTION

Response to Arguments

1. Applicant's arguments, with respect to claims 1-4 have been fully considered and are persuasive. The 101 rejections of claims 1-4 have been withdrawn.

Election/Restrictions

- 2. Applicant's election with traverse of the election required in the reply filed on 10/23/2004 is acknowledged. The traversal is on the ground(s) that restriction would place a serious burden on the applicant to prosecute and maintain three divisional applications. This is not found persuasive because the search and examination of the separate group would place a serious burden on the examiner.
- 3. The requirement is still deemed proper and is therefore made FINAL.

Claim Rejections - 35 USC § 112

- 4. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 5. Claim 1 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter, which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

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While the specification enables a semiconductor chip **mounted** to the circuit board, the specification does not enable a semiconductor chip **provided on** a circuit board. The phrase "provided on" is not enabled, and the scope of this phrase is unclear.

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- 6. Claim 1 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter, which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The applicant does not disclose the following limitation in his specification "collecting separated said semiconductor device." Instead the applicant discloses --collecting a semiconductor chip--.
- 7. Claim 1 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter, which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The applicant does not enable "giving a reward for the separate collection to the user ", instead (evidence by 9, line 15 of the specification, "the manufacturer or service organization rewards the user for the report". (The applicant enables the reporting step and not the collecting step.)
- 8. The following is a quotation of the second paragraph of 35 U.S.C. 112:

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The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.

9. Claims 1-4 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The claimed method steps do not clearly disclose the relationship of the steps involved. Are the steps accomplished sequentially? Are the limitations drawn to actions of a user, a manufacturer, or another third party? Is the Manufacturer dismounting the semiconductor chip so that a user can report the predetermined information?

Claims 1, 2, and 4 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

- 10. Claims 1, 2 and 4 recite the limitation "said user" and "the user" in these claims.

 There is insufficient antecedent basis for this limitation in the claim.
- 11. Claim 4 recites the limitation "who sent said label". However there is no step requiring the user to send the label.
- 12. Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential steps, such omission amounting to a gap between the steps. See

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MPEP § 2172.01. The omitted steps are: a user sending a report. As disclosed in the specification this step is essential to the understanding and use of the invention.

- 13. Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential elements, such omission amounting to a gap between the elements. See MPEP § 2172.01. The omitted elements are: a semiconductor chip. Throughout the claims, the applicant has recited the element "semiconductor device" however his specification makes clear that his invention is not concerned with the semiconductor device, but instead a semiconductor chip.
- 14. Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The order of the method steps is not sequential. Step (a) is written in the past tense, and should be rewritten in the present tense. It is not clear when this step is happening/occurring. Previous to what?
- 15. Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Step (b) is not clear. Who is in fact dismounting the semiconductor device? Is the manufacturer or service provider or is the user?

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16. Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite

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regards as the invention. The phrase "which faces said printed board" does not clearly

for failing to particularly point out and distinctly claim the subject matter which applicant

define the invention. Is it the semiconductor device, which faces the printed board, or is

it the package surface of the semiconductor device, which faces the printed board?

17. Claim 2 recites the limitation "the package surface facing said printed board" in

line 3 of the claim. There is insufficient antecedent basis for this limitation in the claim.

It appears the applicant is referring back to claim 1 where it is he states "providing

predetermined information on a package surface of said semiconductor device which

faces said printed board", however as discussed above, the phrase "which faces said

printed board" is confusing and does not clearly define the relationship of the package

surface, the printed board, and the predetermined information.

Claim Rejections - 35 USC § 103

- 18. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 19. Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yanase (11-212471) in view of Tsunenari et al (2002/0013744). Yanase disclose an previously providing predetermine information on a package surface of a semiconductor

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device, where the semiconductor device faces the circuit board (see paragraph 0003), dismounting said device so that said device can be separately collected (see abstract), receiving a report based on said predetermined information from an operator. Although Yanase does not disclose the actual collecting of the separated device, Tsunenari et al teaches that it is known to submit a product to a specific location for the recycling procedure. It would have been obvious at the time of the invention to one having ordinary skill in the art to include the teachings of Tsunenari et al into the method of Yanase for the purpose of increasing the ease at which a user may recycle a recyclable product.

- a. Re Claim 2: Tsunenari et al discloses a service number on the package surface (see paragraphs 57 and 58), an giving a reward for the collection of the recyclable
- b. Re Claim 3: Tsunenari et al discloses accepting a report through a communications network (see Figure 1)
- c. Re claim 4: Tsunenari et al discloses sticking a label as the information on the package surface, (see model number) and giving a reward for the separate collection to the user who sent said label (see Figure 1).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen A. Holzen whose telephone number is 703-308-2484. The examiner can normally be reached on M-F 7:30 - 5:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Teri Luu can be reached on 703 305-7421. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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